

MATERIAL SAFETY DATA SHEET

OSHA FORM 174

PRODUCT NAME: LIQUID SOOT REMOVER
PRODUCT CODE: 15, 19 & 21
HMIS CODES: H-1, F-2, R-1, P-1 (HEALTH - FIRE - REACTIVITY - PROTECTION)
HMIS RATING: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

EMERGENCY RESPONSE NUMBER'S FOR SHIPPING ONLY: FOR U.S. SHIPMENTS AND FOR INTERNATIONAL SHIPMENTS 1-206-262-8340

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: MEECO MANUFACTURING COMPANY, INC.
ADDRESS: 12 SOUTH IDAHO STREET; SEATTLE, WA 98134
EMERGENCY PHONE: 1-206-262-8340
DATE PREPARED: 3/15/06 **NAME OF PREPARER:** MEECO MFG. CO., INC.
LAST REVISION: 3/15/06

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| HAZARDOUS COMPONENTS | CAS # | OSHA PEL | ACGIH TLV | OTHER | VAPOR PRESS | WEIGHT % |
|-----------------------------|--------------|-----------------|------------------|--------------|--------------------|-----------------|
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|----------|-----------|----------|----------|--|--|-------|
| Kerosene | 8008-20-6 | 1000 ppm | 1000 ppm | | | 80-95 |
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No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 300° F **SPECIFIC GRAVITY (H2O=1):** 0.825
VAPOR DENSITY: Heavier than air **EVAPORATION RATE:** Slower than ether
V.O.C.: 100%
SOLUBILITY IN WATER: None.
APPEARANCE AND ODOR: Reddish liquid with a hydrocarbon odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 100° F **METHOD USED:** TCC
FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: 0.7 **UPPER:** 5.0
EXTINGUISHING MEDIA: All purpose AFFF, dry chemical, CO2, alcohol foam.
SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus with a full face piece operated in a pressure demand or other positive pressure mode and full protective clothing.
UNUSUAL FIRE AND EXPLOSION HAZARDS: FLAMMABLE! Closed container can build pressure under heat and rupture explosively. Volatile vapors can burn in the open or explode. If confined, vapor is heavier than air and can travel long distances to source of ignition.

SECTION V - REACTIVITY DATA

STABILITY: Stable under ordinary conditions of use and storage.
CONDITIONS TO AVOID: Heat, flames, ignition sources and incompatibles.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Burning material will emit irritating and toxic substances. Combustion may produce carbon monoxide, carbon dioxide and reactive hydrocarbons.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: May cause respiratory tract irritation. Exposure may cause harmful central nervous system effects including excitation, euphoria, headache, dizziness, drowsiness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death.
SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
EYE – May cause stinging, tearing, redness, swelling and eye damage.
SKIN – Moderately irritating. Repeated or prolonged contact may result in defatting, redness, itching, inflammation, cracking and possible secondary infection. Absorption from prolonged or massive skin contact may cause poisoning. Products or similar composition have produced skin cancer in laboratory animals.

SECTION VI - HEALTH HAZARD DATA - continued

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Moderately toxic. Swallowing may cause irritation of the digestive tract, nausea, vomiting and diarrhea. May cause harmful central nervous system effects including excitation, euphoria, headache, dizziness, drowsiness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death. Call a physician immediately.

CARCINOGENICITY: This material is not considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

NTP? No **IARC MONOGRAPHS?** No **OSHA REGULATED?** No

EMERGENCY AND FIRST AID PROCEDURES:

EYES – Irrigate with flowing water immediately and continuously for 15 minutes, lifting the upper and lower eyelids occasionally. Consult medical personnel.

SKIN - Wash off in flowing water or shower. Remove contaminated clothing and wash before reuse.

INGESTION – DO NOT INDUCE VOMITING BECAUSE OF DANGER OF ASPIRATING LIQUID INTO LUNGS. Give victim a glass of water or milk. Seek immediate medical attention. **NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.**

INHALATION – Move individual to fresh air. If not breathing, give mouth to mouth resuscitation. If breathing is difficult, give oxygen. Seek medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear protective equipment. Keep out of sewers storm drains and dirt.

SMALL SPILL – Absorb liquid on paper, vermiculite, floor absorbent or other absorbent material and transfer to labeled containers or hood.

LARGE SPILL – Eliminate all ignition sources (flares, flames, pilot lights, electrical sparks). Stop spill at source, dike area of spill to prevent spreading, pump liquid into salvage tank. Remaining liquid may be taken up by sand, clay, floor absorbent or other absorbent material and shoveled into labeled containers or hood. Notify proper authorities that a spill has occurred.

WASTE DISPOSAL METHOD: Review federal, provincial and local government requirements prior to disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Exercise reasonable care and caution. Store in a cool dry place away from all sources of ignition.

OTHER PRECAUTIONS: Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid and/or solids). All hazard precautions given in the data sheet must be observed.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: If Threshold Limit Value (TLV) of the product or any component is exceeded, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions.

VENTILATION: Provide general or mechanical ventilation or local exhaust to keep vapor concentrations below TLV of materials in Section II and LEL in Section IV.

PROTECTIVE GLOVES: Use impermeable gloves to prevent prolonged skin contact.

EYE PROTECTION: Use safety eye wear designed to protect eyes against liquid splash and mists. Consult your safety equipment supplier.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use protective clothing to prevent skin contact. Use head caps, boots, chemical aprons when necessary.

WORK/HYGIENIC PRACTICES: Eye washes and safety showers in the work place are recommended. Wash hands before eating or using the restroom. Monitor exposure levels.

SECTION IX - REGULATORY INFORMATION

SARA 313 / 40 CFR 372: This product contains no hazardous materials at or above normal reporting levels.

CLEAN AIR ACT AMENDMENT SECTION 112 (HAPS): This product contains no hazardous materials at or above normal reporting levels.

DOT SHIPPING INFORMATION (BULK): Kerosene, 3, UN1223, PGIII.

DOT SHIPPING INFORMATION (LIMITED QUANTITIES): Inner packaging 1 quart or less each net capacity in strong outer packaging and total package weight not exceeding 66 pounds (30 kg): Consumer Commodity, ORM-D.

IATA SHIPPING DESCRIPTION: Kerosene, 3, UN1223, PGIII.

OSHA CLASSIFICATION: Flammable liquid – Class 1B.

CLEAN AIR ACT - OZONE DEPLETING CHEMICALS: Not known to contain or be manufactured with Class 1 or Class 2 Ozone Depleting Chemicals (ODC's).

SECTION X - DISCLAIMER

NOTICE: Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, MEECO Manufacturing Company, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to the suitability for their purposes prior to use. In no event will MEECO Manufacturing Company, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers.

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